ABSTRACT OF THE DISCLOSURE

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To acquire a high-resolution frame from a plurality of frames sampled from a video image, it is necessary to obtain a high-resolution frame with reduced picture quality degradation regardless of motion of a subject included in the frame. Because of this, between a plurality of contiguous frames Fr_N and Fr_{N+1} , there is estimated a correspondent relationship. Based on the correspondent relationship, the frames Fr_{N+1} and Fr_N are interposed to obtain first and second interpolated frames FrH1 and FrH2. Based on the correspondent relationship, the coordinates of the frame Fr_{N+1} are transformed, and from a correlation value with the frame Fr_N , there is obtained a weighting coefficient $\alpha(x^{\circ}, y^{\circ})$ that makes the weight of the first interpolated frame Fr_{H1} greater as a correlation becomes greater. With the weighting coefficient, the first and second interpolated frames are weighted and added to acquire a synthesized frame Frg.